



UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. MBHB 01-100)

PATENT

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In the Application of: )  
 )  
Rudger Rubbert, et al. )  
 )  
Serial No.: 09/835,007 )  
 )  
Filed: April 13, 2001 )  
 )  
For: Methods For Registration of )  
Three-Dimensional Frames to )  
Create Three-Dimensional )  
Virtual Models Of Objects )  
 )  
Confirmation No.: 3166 )

Group Art Unit: 2621

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APR 01 2002

Technology Center 2600

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references and information of record in the above-identified application. Copies of the cited references are enclosed. The references are also listed in the PTO-1449 form enclosed herewith. It is requested that the references and information be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

In the judgment of the undersigned, portions of the references may be material to the examination of the pending claims. However, the references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the

cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. §§ 102 or 103.

## CITED REFERENCES

### Other:

Charles A. Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain", *Journal of Computer Assisted Tomography*, 13(1):20-26, January/February, 1989.

Klaus D. Toennies et al, "Registration of 3D Objects and Surfaces", *IEEE Computer Graphics & Applications*, 1990, pages 52-62.

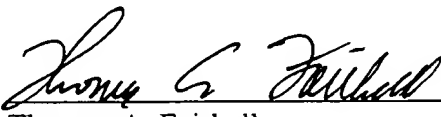
Behrooz Kamgar-Parsi et al., "Registration of Multiple Overlapping Range Images: Scenes without Distinctive Features", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 13, No. 9, September 1991, pages 857-871.

Hui Li et al., "Registration of 3-D Multimodality Brain Images by Curve Matching", *IEEE*, 1994, pages 1744-1748.

Jean-Francois Mangin et al., "Nonsupervised 3D Registration of PET and MRI Data Using Chamfer Matching", *IEEE*, 1993, pages 1262-1264.

Respectfully submitted.  
McDonnell Boehnen Hulbert & Berghoff

Date: 10/26/01

By:   
Thomas A. Fairhall  
Reg. No. 34,591



CERTIFICATE OF MAILING

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The undersigned hereby certifies that the foregoing INFORMATION DISCLOSURE STATEMENT is being deposited as first class mail, postage prepaid, in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231 on this 26 day of October, 2001.

Thomas A. Fairhall

FORM PTO-1449  
(Rev. 2-32)

INFORMATIONAL CLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

01,100

Serial No.

09/835,007

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Applicant:

Rudger Rubbert et al.

Filing Date:

04/13/01

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2621

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

hwc		Charles A. Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain", <i>Journal of Computer Assisted Tomography</i> , 13(1):20-26, January/February, 1989.
		Klaus D. Toennies et al., "Registration of 3D Objects and Surfaces", <i>IEEE Computer Graphics &amp; Applications</i> , 1990, pages 52-62.
		Behrooz Kamgar-Parsi et al., "Registration of Multiple Overlapping Range Images: Scenes without Distinctive Features", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 13, No. 9, September 1991, pages 857-871
		Hui Li et al., "Registration of 3-D Multimodality Brain Images by Curve Matching", <i>IEEE</i> , 1994, pages 1744-1748.
✓		Jean-Francois Mangin et al., "Nonsupervised 3D Registration of PET and MRI Data Using Chamfer Matching", <i>IEEE</i> , 1993, pages 1262-1264.
EXAMINER		DATE CONSIDERED 11/29/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.



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Hon. Commissioner of  
Patents and Trademarks  
Re: Applicant – Rüdger Rubbert et al.

S/N 09/835,007  
Ally TAF  
Case No. 01-100  
Filed: 4/13/01

“Methods for Registration of Three-Dimensional Frames to Create Three-Dimensional  
Virtual Models of Objects”

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- ☒ Transmittal Letter in duplicate
- ☒ Supplemental Information Disclosure Statement
- ☒ PTO Form 1449
- ☒ Cited References

Fee Enclosed

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Mailed: 10/26/01

Respectfully,  
McDonnell Boehnen Hulbert & Berghoff  
Attorney for Applicant